



Product designation			Power contactor
Product type designation			BF95
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		A	140
Operational current le			
	AC-1 (≤40°C)	А	140
	AC-1 (≤55°C)	A	115
	AC-1 (≤70°C)	A	100
	AC-3 (≤440V ≤55°C)	A	95
	AC-4 (400V)	A	45
Rated operational power AC-3 (T≤55°C)			
	230V	kW	30
	400V	kW	55
	415V	kW	55
	440V	kW	55
	500V	kW	75
	690V	kW	90
	1000V	kW	45
Rated operational current AC-3 (T≤55°C)			
	230V	A	95
	400V	A	95
	415V	A	95
	440V	A	95
	500V	A	95
	690V	A	93
	1000V	A	33
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	A	140
	48V	A	140
	75V	А	100
	110V	A	10
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	A	140
	48V	А	140
	75V	А	140
	110V	А	110
	220V	A	12

IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series

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BF9500E230 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 95A, AC/DC COIL, 100...250VAC/DC

	≤24V	А	140
	48V	А	140
	75V	А	155
	110V	A	120
	220V	A	125
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	A	140
	48V	А	140
	75V	А	155
	110V	А	140
	220V	A	140
IEC may autrent la in DC2 DCE with $L/D < 15$ may with 1 nales in series	220 V	~	140
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series	-0.0.4		
	≤24V	А	140
	48V	А	44
	75V	Α	36
	110V	А	6
	220V	А	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	~0 AV	٨	140
	≤24V	A	140
	48V	А	63
	75V	Α	60
	110V	Α	55
	220V	А	7
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	≤24V	А	140
	48V	A	115
	75V	A	90
	110V	А	85
	220V	A	76
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	≤24V	А	140
	48V	А	110
	75V	A	110
	110V		
		A	105
	220V	A	95
Short-time allowable current for 10s (IEC/EN60947-1)		Α	760
Protection fuse			
	gG (IEC)	А	160
	aM (IEC)	А	100
Making capacity (RMS value)	- (-)	А	1200
Breaking capacity at voltage		/\	1200
Dreaking capacity at voltage	4.401/	•	4400
	440V	A	1100
	500V	A	775
	690V	Α	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	lth	W	8.8
	AC-3	Ŵ	4.1
Tightoning torque for terminels	AC-3	vv	т. I
Tightening torque for terminals	<u>.</u>		0
	min	Nm	6
	max	Nm	7
	min	lbin	4.4
	max	Ibin	5.2

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BF9500E230 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 95A, AC/DC COIL, 100...250VAC/DC

Tightening torque for	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	lbin	0.74
Conductor section				
	AWG/Kcmil			
		max		2/0
	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	70
Power terminal prote	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	2060
Conductor section				
	AWG/kcmil conductor section			
		max		2/0
Auxiliary contact char	acteristics			
Thermal current Ith			А	140
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
AC coil operating				
Rated AC voltage at \$	50/60Hz, 60Hz			
		min	V	100
		max	V	250
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out		o (1 1	
	<u> </u>	max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz			
	pick-up		0/17	00.11
		min	%Us	80 Us min
	1 .	max	%Us	110 Us max
	drop-out		0/11-	-70
10	unersticate at 00%0	max	%Us	≤70 Us min
AC average coil cons	•			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	70175
		holding	VA	1.73.5
	of 50/60Hz coil powered at 60Hz	. .		70 /77
		in-rush holding	VA VA	70175 1.73.5
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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 95A, AC/DC COIL, 100...250VAC/DC

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	of 60Hz coil powered	at 60Hz			
			in-rush	VA	70175
			holding	VA	1.73.5
Dissipation at holding	<20°C 50Hz			W	1.31,5
DC coil operating	-20 0 301 IZ			vv	1.01,0
DC rated control voltage	90				
	ye		min	V	100
			max	V	250
DC operating voltage					
	pick-up				
			min	%Us	80 Us min
			max	%Us	110 Us max
	drop-out				
			max	%Us	≤70 Us min
Average coil consump	otion ≤20°C				
			in-rush	W	7080
			holding	W	1.31.5
Max cycles frequency					
Mechanical operation				cycles/h	1500
Operating times				5,5100/11	
Average time for Us co	ontrol				
werage une IUI US U	in AC				
	IN AC				
		Closing NO			. –
			min	ms	45
			max	ms	90
		Opening NO			
			min	ms	24
			max	ms	60
	in DC				
		Closing NO			
			min	ms	45
			max	ms	85
		Opening NO			
		-1- 5 -	min	ms	24
			max	ms	60
UL technical data			Пах	1110	
Yielded mechanical pe	arformance				
		votor			
	for three-phase AC n	notor	200/2001	ЦП	20
		notor	200/208V	HP	30
		notor	220/230V	HP	30
		notor	220/230V 460/480V	HP HP	30 60
		notor	220/230V	HP	30
	for three-phase AC n	notor	220/230V 460/480V	HP HP	30 60
		notor	220/230V 460/480V 575/600V	HP HP	30 60 75
General USE	for three-phase AC n	notor	220/230V 460/480V	HP HP	30 60
General USE	for three-phase AC n	notor	220/230V 460/480V 575/600V	HP HP HP	30 60 75
General USE	for three-phase AC m Contactor	notor	220/230V 460/480V 575/600V	HP HP HP	30 60 75
General USE	for three-phase AC n	notor	220/230V 460/480V 575/600V	HP HP HP	30 60 75
General USE	for three-phase AC m Contactor	notor	220/230V 460/480V 575/600V AC current	HP HP HP A	30 60 75 150
General USE	for three-phase AC m Contactor	notor	220/230V 460/480V 575/600V AC current Short circuit current Fuse rating	HP HP HP	30 60 75 150 100 200
General USE	for three-phase AC m Contactor n fuse, 600V High fault	notor	220/230V 460/480V 575/600V AC current	HP HP HP A	30 60 75 150
General USE	for three-phase AC m Contactor	notor	220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class	HP HP A A kA A	30 60 75 150 100 200 J
General USE	for three-phase AC m Contactor n fuse, 600V High fault	notor	220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current	HP HP A A kA A	30 60 75 150 100 200 J 10
General USE	for three-phase AC m Contactor n fuse, 600V High fault	notor	220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class	HP HP A A kA A	30 60 75 150 100 200 J

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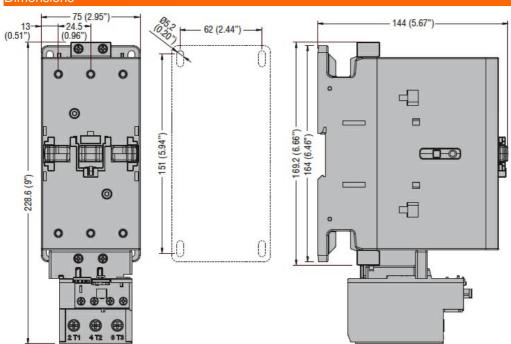


Ambient conditions

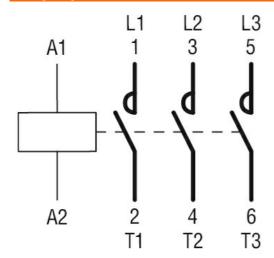
Temperature

Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	+80
		m	3000





Wiring diagrams



Certifications and compliance

CSA C22.2 n° 60947-1		
CSA C22.2 n° 60947-4-1		
IEC/EN/BS 60947-1		
IEC/EN/BS 60947-4-1		
UL 60947-1		

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Compliance

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	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
ETIM classification	h	
		EC000066 -
ETIM 8.0		Power contactor,
		AC switching